

(19) World Intellectual Property  
Organization  
International Bureau



(43) International Publication Date  
3 March 2005 (03.03.2005)

PCT

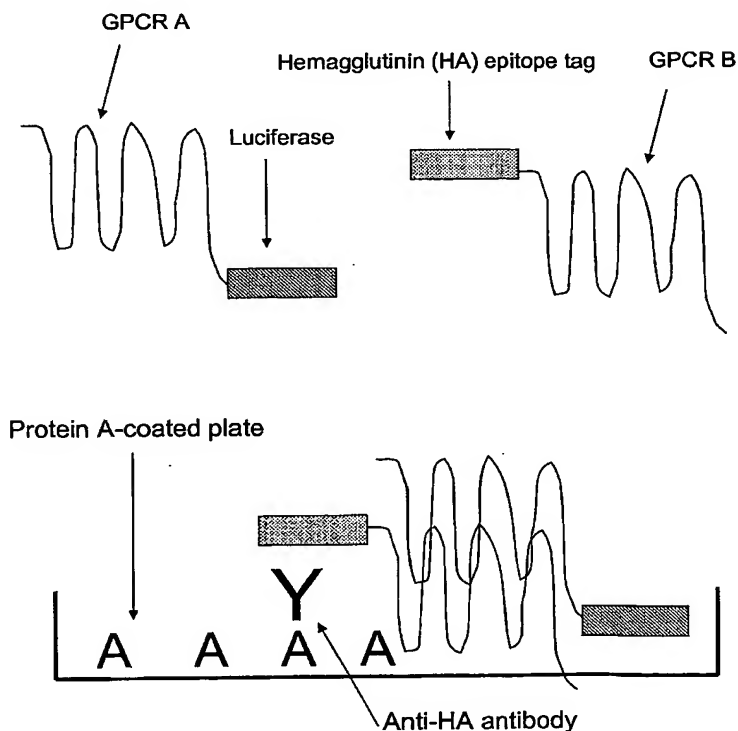
(10) International Publication Number  
**WO 2005/019834 A1**

- (51) International Patent Classification<sup>7</sup>: **G01N 33/74**,  
C12N 15/10
- (21) International Application Number:  
PCT/US2004/025854
- (22) International Filing Date: 9 August 2004 (09.08.2004)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:  
60/496,255 18 August 2003 (18.08.2003) US
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- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI,

[Continued on next page]

(54) Title: METHODS AND COMPOSITIONS RELATING TO MODULATION OF GPCR SIGNALING

### Receptor Dimerization Assay



(57) Abstract: The subject invention provides methods for detecting a GPCR-binding partner complex. In general, the methods involve co-producing two polypeptides, one of which being a GPCR, isolating one of the polypeptides using a substrate with affinity for that polypeptide, and directly detecting the presence of the other polypeptide on the substrate. In some embodiments, the affinity substrate is addressable. The two polypeptides may be the same or different GPCRs, or a GPCR and a non-GPCR polypeptide. The subject invention further provides methods for identifying whether a polypeptide is a binding partner for a GPCR. In addition, the subject invention provides methods of screening for agents that modulate the binding of a GPCR to a binding partner for that GPCR. The subject methods and compositions find use in a variety of research and therapeutic applications, particularly in methods to identify agents for treating GPCR-binding partner complex-related disorders.



SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ,  
GW, ML, MR, NE, SN, TD, TG).

*For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.*

**Published:**

— *with international search report*